

Curriculum Vitae

Name: Howard Martin Druce
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Somerville, NJ 08876-3049
908-704-9696

1. Education

a. Undergraduate

Oxford University
Oxford, England, UK
Degree: BA with 1st class Honors in Physiological Sciences
9/1971-6/1974

b. Graduate

Oxford University
Oxford, England, UK
Degree: MA, Physiological Sciences
10/1978

University of London, Middlesex Hospital Medical School (Now University College
London Medical School)
London, England, UK
Degree: MB, BS. (equivalent to U.S. MD), Medicine with Honors in Clinical
Pharmacology and Therapeutics
9/1974-10/1977

2. Post Doctoral Training

a. Internship and Residencies

NY Hospital Queens (formerly Booth Memorial Medical Center affiliated with New
York University Medical Center)
Flushing, NY
Internship and Residency: Internal Medicine
7/1979 – 6/1982

United Manchester Teaching Hospitals, University of Manchester
Manchester, England, UK
Residency: ENT, Gynecology
8/1978 – 6/1979

University College Hospital (formerly Middlesex Hospital), University of London
London, England, UK
Internship: Medicine
2/1978 – 8/1978

b. Research Fellowships

National Institute of Allergy and Infectious Diseases

Bethesda, MD

Visiting Associate, Laboratory of Clinical Investigation, Allergy and Clinical Immunology

7/1983 – 6/1985

National Institute of Allergy and Infectious Diseases

Bethesda, MD

Fogarty Fellow, Laboratory of Clinical Investigation, Allergy and Clinical Immunology

7/1982 -6/1983

(b) (6)

4. Licensure

New Jersey State Medical License (# (b) (6))

Medicine, July 1993

Expiration: June 2012

Missouri State Medical License (# (b) (6))

Medicine

November 1984- January 1996

Maryland State Medical License (# (b) (6))

Medicine

June 1982- September 1986

D.C. District Medical License (# (b) (6))

Medicine

May 1982- July 1985

New York State Medical License (# (b) (6))

Medicine

October 1980- December 1985

United Kingdom General Medical Council ((b) (6))

Medical Practitioner

November 1977- November 2003

5. Certification

Diplomate Certified: American Board of Allergy & Immunology

No. (b) (6)

October 1985

Diplomate Certified: American Board of Internal Medicine
No. (b) (6)
September 1983

6. Narcotics Certification

New Jersey State
CDS License # (b) (6)
Expiration: October 2012

New Jersey
DEA License # (b) (6)
Expiration: June 2012

7. University Appointments

Department of Medicine, Division of Allergy and Immunology
University of Medicine and Dentistry of New Jersey - New Jersey Medical School
Clinical Professor of Medicine
July 2008- present

Department of Medicine, Division of Allergy and Immunology
University of Medicine and Dentistry of New Jersey - New Jersey Medical School
Clinical Associate Professor of Medicine
July 1994- July 2008

Department of Internal Medicine, Division of Allergy and Immunology
Saint Louis University School of Medicine, St. Louis, MO
Associate Professor of Medicine
July 1991- July 1992

Department of Otolaryngology, Head and Neck Surgery
Saint Louis University School of Medicine, St. Louis, MO
Assistant Professor of Otolaryngology
July 1990- July 1992

Department of Internal Medicine, Division of Allergy and Immunology
Saint Louis University School of Medicine, St. Louis, MO
Assistant Professor of Medicine
July 1985- June 1991

8. Hospital Appointments

Department of Medicine
Somerset Medical Center, Somerville, NJ
Attending Physician, Department of Medicine
July 2009-Present

Department of Medicine, Allergy/Immunology/Rheumatology
University Hospital, Newark, NJ
Attending Physician (Courtesy status)
July 1994- December 2009

Department of Internal Medicine
Saint Louis University Hospital, St. Louis, MO
Co-Director, Comprehensive Sinus Clinic
July 1989- July 1992

Department of Pediatrics
Cardinal Glennon Children's Hospital, St. Louis, MO
Attending Physician
November 1986- July 1992

Department of Internal Medicine
Saint Louis University Hospital, St. Louis, MO
Attending Physician
July 1985- July 1992

Department of Internal Medicine
John Cochran Veterans Administration Medical Center, St. Louis, MO
Consultant, Medical Service/Allergy
July 1985- September 1992

Department of Internal Medicine
Washington Hospital Center, Washington, DC
Junior Attending Physician
May 1984- July 1985

9. Other Professional Positions and Major Visiting Appointments

U.S. Food and Drug Administration
Industry Representative, Pulmonary-Allergy Drugs Advisory Committee
2012-2015

Department of Medical Affairs
McNeil Consumer HealthCare, Morris Plains, NJ
Senior Director, Upper Respiratory
January 2007-December 2008

Department of Clinical Research and Medical Affairs
Pfizer Consumer Healthcare
Senior Director, Upper Respiratory, Tobacco Dependence and Eye Care
September 2000- January 2007

Department of Clinical Research and Medical Affairs
Warner-Lambert Consumer Healthcare
Senior Director, Upper Respiratory
November 1998- September 2000

Department of Clinical Research and Medical Affairs
Whitehall-Robins Division of American Home Products Inc. (Now Wyeth)
Director, Upper Respiratory and Fertility
January 1996- November 1998

Department of Clinical Research
Hoffman-LaRoche Inc.
Associate Director, Respiratory Medicine
July 1992- January 1996

10. Awards and Honors

Travel Grant
XII International Congress of Allergology and Clinical Immunology
Washington, DC
June 1985

Travel Grant
American Academy of Allergy and Immunology Annual Meeting
Chicago, IL
March 1984

AMA Physicians Recognition Award for CME
1983, 1985, 1991

Temple Frere Class Prize in Obstetrics/Gynecology
Middlesex Hospital Medical School, London UK
November 1977

Studentship in Community Medicine
Health Education Council of UK
1977

Third David Moore Class Prize in Obstetrics/Gynecology
Middlesex Hospital Medical School, London UK
November 1977

University of Glasgow
Certificate of Merit: Class of Clinical Obstetrics
March 1976

Nuffield Foundation Exchange Scholarship in Gynecology
University of Glasgow, Scotland
January –March 1976

11. Membership on Boards of Directors or Trustees

None

12. Major Teaching Experience

a. Lectures

UMDNJ – New Jersey Medical School
Department of Medicine, Division of Allergy and Immunology
Introductory Course on Allergy and Immunology
2002- present

UMDNJ – New Jersey Medical School
Department of Medicine, Division of Allergy and Immunology
Basic Science Immunology Course
2002- 2006

UMDNJ – New Jersey Medical School
Department of Medicine, Division of Allergy and Immunology
Faculty mentor, Allergy and Immunology Journal Club
2002- present

Saint Louis University School of Medicine
Department of Medicine
Preceptor, “Ethics of Death and Dying” Course
2002

Saint Louis University School of Medicine
Department of Medicine
Preceptor, Community Medicine Elective
1986-1992

Saint Louis University School of Medicine
Department of Medicine
Resident Faculty Advisor
1986-1992

Saint Louis University School of Medicine
Department of Medicine
Preceptor, Internal Medicine Course
1986-1992

Saint Louis University School of Medicine

Department of Medicine
Faculty Mentor, Allergy and Immunology Journal Club
1985-1992

b. Research Training

1. Post Doctoral Fellow

None

2. Pre Doctoral Students

(b) (6)

c. Instruction to (unique circumstance)

None

13. Principal Clinical and Hospital Service Responsibilities

University of Medicine and Dentistry of New Jersey – University Hospital
Department of Medicine, Division of Allergy and Immunology
Allergy and Immunology Service Attending
Responsibilities: Ambulatory medicine clinical practice, graduate fellow education, resident education, medical student education
July 1992 – December 2009

Saint Louis University School of Medicine
University Hospital
Department of Internal Medicine, Division of Allergy and Immunology
Internal Medicine and Allergy and Immunology Service Attending
Responsibilities: In-patient and ambulatory medicine clinical practice, graduate fellow education, resident education, medical student education
July 1985 – June 1992

14. Major Committee Assignments

a. International

WHO Expert Committee on Drug Dependence
Geneva, Switzerland
June 1998

b. National

Member, Taskforce on Practice Parameters for Allergic Rhinitis
Joint Council for Allergy and Immunology
October 2004 – present

Member, Taskforce on Practice Parameters for Sinusitis
Joint Council for Allergy and Immunology
October 2004 – present

New Jersey State Representative, House of Delegates
American College of Allergy, Asthma and Immunology
2011-

c. Medical School

Member, University Faculty Senate
Saint Louis University School of Medicine
June 1991- June 1992

Member, Biomedical Communications Advisory Committee
Saint Louis University School of Medicine
July 1991- June 1992

Member, International Services Advisory Board
Saint Louis University School of Medicine
January 1987- June 1992

Member, Institutional Review Board
Saint Louis University School of Medicine
July 1986- June 1992

d. Hospital

Member, CME Committee
Somerset Medical Center, Somerville, NJ
December 2009 - Current

Member, Medical Staff Nominating Committee
Saint Louis University Hospital
July 1991- June 1992

Member, Biomedical and Instrumentation Committee
Saint Louis University Hospital
July 1991- June 1992

Member, Antibiotic Review Committee
Saint Louis University Hospital
July 1990- June 1991

Member, Laboratory Utilization/Transfusion Practices Committee
Saint Louis University Hospital

July 1988- June 1989

e. Department

Member, Fellowship Review Committee

Division of Allergy and Immunology/ Department of Medicine

University of Medicine and Dentistry of New Jersey - New Jersey Medical School

November 1992- present

Member, Faculty Committee

Division of Allergy and Immunology/ Department of Medicine

University of Medicine and Dentistry of New Jersey - New Jersey Medical School

July 1992- present

f. Editorial Boards

American Journal of Rhinology

1992-2005

Annals of Allergy, Asthma and Immunology

1990-1995

g. Ad Hoc Reviewer

Journal Reviewer

Allergy (European Journal of Allergy and Clinical Immunology)

Allergy and Immunology Practice

American Journal of Rhinology

American Review of Respiratory Disease

Annals of Allergy, Asthma and Immunology

Diagnostic Cytopathology

Journal of Allergy and Clinical Immunology

Journal of Applied Physiology

Journal of Clinical Investigation

New Jersey Medicine

Pediatric Asthma, Allergy and Immunology

Sentinel Reviewer, American College of Physicians

Grant Reviewer

Medical Research Council of Canada

Cystic Fibrosis Foundation

15. Memberships, Offices and Committee Assignments in Professional Societies

Society for Research on Nicotine and Tobacco (SRNT)

Associate Member

2004-2006

American Academy of Allergy, Asthma and Immunology (AAAAI)
Member, Rhinitis Committee
March 2003- March 2011

American Academy of Allergy, Asthma and Immunology (AAAAI)
Member, Rhinitis, Rhinosinusitis and Ocular Allergy Committee (formerly Sinusitis Committee)
March 2003- present

The Association for Research in Vision and Ophthalmology (ARVO)
Member
2003-2005

Drug Information Association
Member
May 2002- December 2005

American Academy of Allergy, Asthma and Immunology (AAAAI)
Chair, Sinusitis Committee
March 2001- March 2002

Food Allergy and Anaphylaxis Network (FAAN)
Member
1998 - present

Consumer Healthcare Products Association (CHPA) working groups: Decongestant Subgroup, Nasal decongestant, Alcohol Task Groups; Antihistamine, Asthma, Cough/Cold, PPA, Phenylephrine, Theophylline, Dextromethorphan, Pediatric Cough/Cold Dosing
1996- 2008

Mothers of Asthmatics/Asthma and Allergy Network
Member
1994 - present

New Jersey Allergy/Immunology Society
Member
September 1993- present

American Academy of Allergy, Asthma and Immunology (AAAAI)
Task Force on Practice Standards: Sinusitis subcommittee
1991-1999

American Academy of Allergy, Asthma and Immunology (AAAAI)
Chair, Rhinitis Committee
March 1991- March 1993

American Academy of Allergy, Asthma and Immunology (AAAAI)
Workshops Sub-Committee, Continuing Medical Education Committee
March 1990- March 1993

American Physicians Fellowship for Medicine in Israel
Member
1990- present

American Academy of Allergy, Asthma and Immunology (AAAAI)
Program Committee, Asthma, Rhinitis and Respiratory Diseases Interest Section
March 1989- March 1990

American Academy of Allergy, Asthma and Immunology (AAAAI)
Chair, Nasal Provocation Subcommittee
March 1988 – March 1989

American College of Allergy, Asthma and Immunology
Fellow
May 1987 - present

American College of Physicians
Fellow
September 1986 – present

American College of Physicians
Member
September 1984- September 1986

American Thoracic Society
Member
November 1984 – October 2009

American Federation for Clinical Research
Member
March 1984- June 1987

16. Major Research Interests

My initial post-doctoral research focused on the pathophysiology of allergic rhinitis, non-allergic rhinitis and sinusitis. Using novel techniques of laser-Doppler velocimetry, and nasal provocation challenge, I developed new techniques for measurement of nasal blood flow and analysis of chemical mediators. This research extended to studies of nasal reflexes, nasal cytology and olfaction, including work in Alzheimer's disease. More recently, I have been responsible for designing and conducting clinical studies to obtain regulatory approval for new drugs and to convert prescription drugs to over-the-counter status. These studies are in the areas of allergic rhinitis, non-allergic rhinitis, prevention of sinusitis, tobacco dependence, and symptomatic relief of dry eye conditions. I am particularly interested in developing new and

more accurate measures to record and measure cough and other subjective upper respiratory symptoms.

17. Grant History

a. Principal Investigator



(b) (4)

State of Missouri.
Physiology of olfaction and etiology of Alzheimer's Disease.
1989.
Total amount awarded: \$20,000.

USPHS BRSG (Basic Science Research Grant) 396
Microcirculatory control in chronic rhinitis.
1985-6.

Total amount awarded: \$15,295

18. Major Administrative Responsibilities

Department of Internal Medicine, Division of Allergy and Immunology
Saint Louis University School of Medicine, St. Louis, MO
Saint Louis University Hospital
Director, Nasal and Paranasal Sinus Research Laboratory
1985-1992

19. Private Practice

Ear Nose & Throat Care P.C. & Allergy
242 East Main Street
Somerville, NJ 08876
April 2009- Current

20. Articles

1. Snowdon J, Solomons R, **Druce H**. Feigned Bereavement. Brit J Psychiatry 1978;133:15-8.
2. **Druce HM**, Bonner RF, Patow C, Choo P, Summers RJ, Kaliner MA. Response of nasal blood flow to neurohormones as measured by laser-Doppler velocimetry. J Appl Physiology: Respirat Environ Exercise Physiol 1984;57(4):1276-83.
3. **Druce HM**, Wright RH, Kossoff D, Kaliner MA. Cholinergic nasal hyperreactivity in atopic subjects. J Allergy Clin Immunol 1985;76:445-53.
4. **Druce HM**, Heiberg E, Rutledge J. Imaging in chronic sinusitis: disparity between radiographic and ultrasound interpretation. Am J Rhinol 1988;2:61-4.
5. **Druce HM**, Rutledge JL. Chronic sinusitis and rhinitis. Am J Rhinol 1989;3:163-6.
6. Raphael GD, **Druce HM**, Baraniuk JN, Kaliner MA. Pathophysiology of rhinitis I. Assessment of the sources of protein in methacholine-induced nasal secretions. Am Rev Respir Dis 1988;138:413-20.
7. Raphael GD, Meredith SD, Baraniuk JN, **Druce HM**, Banks SM, Kaliner MA. The Pathophysiology of Rhinitis II. Assessment of the sources of protein in histamine-induced nasal secretions. Am Rev Respir Dis 1989;139:791-800.
8. **Druce HM**, Kaliner MA, Ramos D, Bonner RF. Measurement of multiple microcirculatory parameters in human nasal mucosa using laser-Doppler velocimetry. Microvasc Res 1989;38:175-85.
9. **Druce H**, Goldstein S, Melamed J, Grossman J, Moss B, Townley RG. A multicenter placebo-controlled study of Nedocromil sodium 1% nasal solution in ragweed seasonal allergic rhinitis. Ann Allergy 1990;65:212-6.
10. **Druce HM**. The effects of a specific H1-antagonist, terfenadine, on histamine-induced microcirculatory changes and vasopermeability in nasal mucosa. J Allergy Clin Immunol 1990;86:344-52.
11. Borts MR, **Druce HM**. The use of intranasal anticholinergic agents in the treatment of nonallergic perennial rhinitis. J Allergy Clin Immunology 1992;90:1065-70.
12. **Druce HM**, Spector SL, Fireman P, Kaiser H, Meltzer EO, Boggs P, Wood CC, Paluch EP. A randomized, double-blind, placebo-controlled, parallel comparison study of intranasal ipratropium bromide 0.03% administered twice a day in nonallergic perennial rhinitis. Ann Allergy 1992;69:53-60.

13. Meltzer EO, Orgel HA, Backhaus JW, Busse WW, **Druce HM**, Metzger WJ, Mitchell DQ, Selner JC, Shapiro GG, van Bavel JH, Basch C. Intranasal flunisolide spray as an adjunct to oral antibiotic therapy for sinusitis. J Allergy Clin Immunol 1993;92:812-23.
14. Sperber K, Sylvester C, Gollub E, Goswami S, Kalb TH, **Druce HM**, Rutledge J, Marom Z. In vivo detection of a novel macrophage-derived protein involved in the regulation of nasal mucus-like glycoconjugate secretion. J Allergy Clin Immunol 1993;92:581-8.
15. Goodman GM, Martin DS, Klein J, Awwad E, **Druce HM**, Sharafuddin M. A comparison of a screening coronal CT versus a contiguous coronal CT for the evaluation of patients with presumptive sinusitis. Ann Allergy Asthma Immunol 1995;74:178-82.
16. Peltz S, Barchuk W, Oppenheimer J, **Druce H**, Bielory L. Chronic angio-edema of the tongue associated with pernicious anemia and Hashimoto's thyroiditis. Clin Exp Derm 1995;20:351-2.
17. Moskowitz DW, Gillespie KN, Sutera SP, **Druce HM**, Merli CA, Simon EE. Evidence for acute renal cortical vasoconstriction after uninephrectomy. Renal Failure 1996;18:833-46.
18. Bronsky EA, **Druce H**, Findlay SR, Hampel FC, Kaiser H, Ratner P, Valentine MD, Wood CC. A clinical trial of ipratropium bromide nasal spray in patients with perennial nonallergic rhinitis. J Allergy Clin Immunol 1995;95:1117-22.
19. Grossman J, Banov C, Boggs P, Bronsky EA, Dockhorn RJ, **Druce H**, Findlay SR, Georgitis JW, Hampel FC, Kaiser F, Ratner P, Tinkelman DG, Valentine MD, Roszko P, Zegarelli E, Wood C. Use of ipratropium bromide nasal spray in chronic treatment of nonallergic perennial rhinitis, alone and in combination with other perennial rhinitis medications. J Allergy Clin Immunol 1995;95:1123-7.
20. Rubin BK, **Druce H**, Ramirez OE, Palmer R. The effect of clarithromycin on nasal mucus properties in healthy subjects and in patients with acute sinusitis. Am J Resp Crit Care Med 1997;155:2018-23.
21. Gwaltney JM Jr, **Druce HM**. Efficacy of brompheniramine maleate for the treatment of rhinovirus colds. Clin Infect Dis 1997;25:1188-94.
22. **Druce HM**, Thoden WR, Mure P, Furey SA, Lockhart EA, Xie T, Galant S, Prenner BM, Weinstein S, Ziering R, Brandon M. Brompheniramine, loratadine, and placebo in allergic rhinitis: a placebo-controlled comparative clinical trial. J Clin Pharm 1998;38:382-9.
23. Thoden WR, **Druce HM**, Furey SA, Lockhart EA, Ratner P, Hampel C, van Bavel J. Brompheniramine Maleate: A double-blind, placebo-controlled comparison with terfenadine for symptoms of allergic rhinitis. Am J Rhinol. 1998;12:293-9.
24. Fang S-Y, **Druce HM**, Baraniuk, JN. Anticholinergic properties of brompheniramine, chlorpheniramine, and atropine in human nasal mucosa in vitro. Am J Rhinol 1998;12:131-3.
25. Eccles R, Jawad MS, Jawad SS, Angello JT, **Druce HM**. Efficacy and safety of single and multiple doses of pseudoephedrine in the treatment of nasal congestion associated with common cold. Am J Rhinol 2005;19(1):25-31.
26. Raphael GD, Angello JT, Wu M-M, **Druce HM**. Efficacy of diphenhydramine vs. desloratadine and placebo in patients with moderate-to-severe seasonal allergic rhinitis. Ann Allergy Asthma Immunol 2006;96:606-14.

21. Books, Monographs and Chapters

1. **Druce HM**. A study of an Occupational Health Service: Coalworkers' Pneumoconiosis in South Wales. Health Education Council, London, 1978.

2. Mygind N, Anggard A, **Druce HM**. Description, classification and terminology of rhinitis. In: Clinical Aspects of Allergic and Vasomotor Rhinitis. 1st ed (Eds.) Mygind N, Weeke B. Munksgaard, Copenhagen 1985. Pages 15-20.
3. Malm L, **Druce HM**, Holgate ST. Vasoconstrictors and Anti-histamines. In: Clinical Aspects of Allergic and Vasomotor Rhinitis. 1st ed. (Eds.) Mygind N, Weeke B. Munksgaard, Copenhagen 1985. Pages 140-50.
4. **Druce HM**, Kaliner MA. Allergic rhinitis. In: Current Therapy in Respiratory Medicine 2. (Ed.) Cherniack RM. BC Decker, Philadelphia, 1986. Pages 5-6.
5. **Druce HM**. Diagnosis and management of chronic sinusitis and its complications. Immunology Allergy Clin N America 1987;7:117-31.*
6. **Druce HM**, Kaliner MA. Allergic Rhinitis. In: Current Therapy in Internal Medicine 2. (Eds.) Bayless TM, Brain MC, Cherniack RM. BC Decker, Toronto, 1987. Pages 25-6.
7. **Druce HM**. Rhinitis. In: Korenblat P, Wedner HJ. (Eds.) Allergy: Theory and Practice 2nd ed. Philadelphia, W.B. Saunders 1992. Pages 167-180.
8. **Druce HM**. Chronic sinusitis/rhinitis and asthma. In: Rhinitis and Asthma - similarities and differences. (Eds.) Mygind N, Pipkorn U, Dahl R. Munksgaard, Copenhagen, 1990. Pages 150-5.
9. **Druce HM**. Allergy and Respiratory Disease. In: Laser-Doppler Blood Flowmetry. (Eds.) Shepherd AP, Oberg PA, Norwell MA, Kluwer Academic, 1990. Pages 251-64.
10. **Druce HM**, Slavin RG. Sinusitis and its relationships to asthma and allergy. In: Rhinosinusitis Associated with Systemic Conditions. Ch. IV (Eds.) Schatz M, Zeiger R, Settipane G. Providence RI, Oceanside Publications, 1990. Pages 35-42.
11. **Druce HM**, Kaliner MA. Allergic rhinitis. In: Current Therapy in Respiratory Medicine 3. (Ed.) Cherniack RM. Philadelphia, 1989, BC Decker. Pages 16-8.
12. **Druce HM**. Allergic rhinitis due to inhalant factors. In: Conn's Current Therapy, (Ed.) Rakel RE. Philadelphia, Saunders, 1990. Pages 691-4.
13. **Druce HM**. Chronic sinusitis and nonallergic rhinitis. In: Rhinitis, 2nd ed (Ed.) Settipane GA. Providence, 1991, Oceanside. Pages 185-90.
14. **Druce HM**. Use and abuse of allergy medications. Clinical Advances in the Treatment of Allergic Disorders. 1990;1:10-2.
15. **Druce HM**. Allergic and Nonallergic Rhinitis. In: Allergy, Principles and Practice, 4th ed. (Eds.) Middleton E Jr, Reed CE, Ellis EF, Adkinson NF Jr, Yunginger JW. St. Louis, Mosby Year Book, 1993. Pages 1433-53.
16. Badhwar AK, **Druce HM**. Allergic rhinitis. Medical Clin N America. 1992; 76:789-803.
Druce HM. Sinusitis: Pathophysiology and Treatment. New York, Marcel Dekker, 1993. 336pp
17. **Druce HM**, Baraniuk JN. Neuroregulation of mucosal vasculature. In: Asthma and Rhinitis. Busse WW, Holgate S, editors, Cambridge, Blackwell, 1994. Chapter 57, pages 742-51.
18. Baraniuk JN, **Druce HM**. Neuroregulation of mucosal vasculature. In: Inflammatory Mechanisms in Asthma. Holgate S, Busse WW, editors, New York, Marcel Dekker 1998.
19. **Druce HM**. Diagnosis and medical management of recurrent and chronic sinusitis in adults. In: Diseases of the Sinuses. Gershwin ME, Incaudo G. (Eds.) Totowa, Humana Press. 1st ed. Ch 9 pp. 215-33, 1996.

20. **Druce HM.** Allergic and Nonallergic Rhinitis. In: Allergy, Principles and Practice, 5th ed. (Eds.) Middleton E Jr, Reed CE, Ellis EF, Adkinson NF Jr, Yunginger JW. St. Louis, Mosby Year Book, 1998.

22. Abstracts

1. **Druce H,** Patow C, Bonner R, Choo P, Summers R, Kaliner M. Nasal blood flow responses to nasal provocation. J Allergy Clin Immunol 1983;71:89.
2. **Druce HM,** Kossoff D, Kaliner MA. Effects of nasal methacholine challenge on protein secretion. J Allergy Clin Immunol 1984;73:146.
3. **Druce HM,** Kaliner MA, Bonner RF. Neurohormonal effects on nasal blood flow measured by laser-Doppler velocimetry. International J Microcirc: Clin and Exp 1984;3:479.
4. **Druce HM,** Wright R, Ramos D, Raphael G, Kaliner M. Histamine hyperreactivity in allergic and idiopathic rhinitis. J Allergy Clin Immunol 1985;75:112.
5. Raphael GD, **Druce HM,** Wright R, Kaliner MA. Methacholine-induced histamine release in nasal secretions. J Allergy Clin Immunol 1985;75:112.
6. **Druce HM,** Bonner RF, Ramos D, Kaliner MA. Nasal reactivity: application of laser-Doppler velocimetry to measure microcirculatory parameters. Am Rev Respir Dis 1985;131:333A.
7. **Druce HM,** Raphael GD, Bonner RF, Wright RH, Kaliner MA. Nasal hyperreactivity in idiopathic and allergic rhinitis. Ann Allergy 1985;55:237.
8. Raphael GD, **Druce HM,** Wright RH, Kaliner MA. Analysis of nasal mucous membrane vascular permeability. J Allergy Clin Immunol 1986;77:239.
9. Raphael GD, **Druce HM,** Wright RH, Kaliner MA. Histamine-induced nasal protein secretion. Proceedings of ACA Annual Meeting, Phoenix, AZ, January 1986.
10. **Druce HM,** Ellington-Harris L, Cressman W, Glenn J. Perennial rhinitis and chronic sinusitis: overlapping syndromes. J Allergy Clin Immunol 1987;79:243.
11. **Druce HM,** Rutledge J. Epidemiology of chronic rhinitis and sinusitis. J Allergy Clin Immunol 1988;81:172.
12. Rutledge J, **Druce HM,** Heiberg E. Disparity between radiographic and ultrasound interpretation in chronic sinusitis. J Allergy Clin Immunol 1988;81:284.
13. Moskowitz DW, Bonar SL, **Druce HM.** Mouse renal cortical blood flow (RCBF) and EGF do not increase acutely after uninephrectomy. Kidney International 1989;35:317.
14. **Druce HM.** Nasal Provocation Challenge - strategies for experimental design. International Synopses.
15. Goldstein S, Melamed J, Moss B, Grossman J, Townley R, **Druce H.** Nedocromil sodium nasal for seasonal allergic rhinitis. American Academy of Allergy and Immunology 45th Annual Meeting, San Antonio, Feb 1989. J Allergy Clin Immunol 1989;83:278.
16. Borts MR, Slavin RG, Samuels LD, **Druce HM,** Getlicore R. Further studies in allergic sinusitis utilizing single photon emission computerized tomography (SPECT). American Academy of Allergy and Immunology 45th Annual Meeting, San Antonio, Feb.1989. J Allergy Clin Immunol 1989;83:302
17. Rutledge JL, **Druce HM,** Salzmann JK, McNutt B. A specific H1-antagonist, terfenadine, inhibits symptoms of nasal histamine provocation challenge without affecting nasal microcirculation. American Academy of Allergy and Immunology 45th Annual Meeting, San Antonio, Feb 1989. J Allergy Clin Immunol 1989;83:307.

18. **Druce H**, Goldstein S, Melamed J, Grossman J, Moss B, Townley R. Nedocromil sodium nasal for seasonal allergic rhinitis (SAR). Symposium on Allergy and Infection in the Nose. Baltimore MD, June 1989.
19. **Druce HM**, Rutledge JL. A specific H1-antagonist, terfenadine, inhibits symptoms of nasal histamine provocation challenge without affecting nasal microcirculation. Symposium on Allergy and Infection in the Nose. Baltimore MD, June 1989.
20. **Druce HM**, Spector SL, Fireman P, Kaiser H, Boggs P, Wood CC. Randomized, double-blind, parallel comparison of intranasal atrovent nasal spray versus placebo on nonallergic perennial rhinitis (NAPR). Symposium on Allergy and Infection in the Nose. Baltimore MD, June 1989.
21. Moskowitz DW, Bonar SL, **Druce HM**. Mouse renal cortical blood flow (RCBF) and EGF content do not increase acutely after uninephrectomy. FASEB 1989 Annual Meeting. FASEB J 1989;3:A925.
22. **Druce H**, Goldstein S, Melamed J, Grossman J, Moss B, Townley R. Nedocromil sodium nasal for seasonal allergic rhinitis (SAR). European Congress of Allergy and Immunology West Berlin, FRG, Sept 1989 Allergologie 1989;B1366E,129-30.
23. **Druce HM**, Kaiser HB, Weisberg SC, Morris RJ, Spector SL, Fireman P, Meltzer EO, Boggs P, Wood CC. Randomized, double-blind comparison of intranasal Atrovent versus placebo in nonallergic perennial rhinitis. 46th Annual Meeting of American College of Allergy and Immunology, Orlando, FL, 1989.
24. **Druce HM**, Spector SL, Fireman P, Kaiser H, Boggs P, Meltzer E, Wood CC. Randomized, double-blind, parallel comparison of intranasal Atrovent nasal spray versus placebo on nonallergic perennial rhinitis (NAPR). American Academy of Allergy and Immunology, 46th Annual Meeting, Baltimore, MD, March 1990. J Allergy Clin Immunol 1990;85:165.
25. **Druce HM**. The use of terfenadine as a selective H1-histamine antagonist in studies of nasal microcirculation and vascular permeability. European Academy of Allergology and Clinical Immunology, Glasgow, Scotland, 1990. Clin Exp Allergy 1990;20:Suppl 1:64.
26. **Druce HM**, Goldstein S, Melamed J, Grossman J, Moss BA, Townley RG. Investigations with a new nasally active compound nedocromil sodium. Third International Academic Conference on Immunobiology in Otolaryngology, Rhinology, and Laryngology. San Diego, CA, Nov 1990.
27. Kirchoff P, **Druce HM**, Grossberg GT, Woodward V, Russell MB. Epidemiologic approach to rhinitis in geriatric populations. 47th Annual Meeting, American College of Allergy and Immunology, San Francisco, Nov 1990. Ann Allergy 1991;66:88.
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